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Installation and Construction Vessels

Installation and Construction Vessels are utilised to transfer, assemble and install wind turbines, foundation and partly assembled turbines. These vessels are built with large deck space to carry and transport the foundation and large wind turbine towers to the sea. They have the ability to install the tower on the foundation structure and lift the nacelle as high as the hub height of the wind turbine. These vessels can jack up the platform 10-15m and more, above the sea level. These vessels are installed with dynamic positioning (DP) system which tracks the vessels and automatically maintain the vessel position. They also have large accommodation for construction and ship crew.

Site survey is required for the purpose of providing data with which to define the position, boundary and characteristics of the location for the purpose of determining the suitability of the site for the installation and operation of the jack-up. Geophysical data alone is insufficient to perform a site-specific assessment of the soil foundation conditions, and this should be complemented by geotechnical information. Some of the site data required for jack-up site specific assessments include:

1. Location Coordinates
2. Water depth, tidal range and storm surge
3. Wind, wave and current data
4. Bathymetric survey
5. Seabed surface survey
6. Shallow seismic survey

For a detailed understanding of the complete installation procedure with a jack-up please refer to the videos below.

Video 1 (<https://youtu.be/JFzTFROqIbU>)

Video 2 (<https://youtu.be/xFI3Dy2k6oQ>)

To get an in-depth view on the standards and procedures for construction works with jack-up vessels, you may refer to “Guidelines for the Selection and Operation of Jack-ups in the Marine Renewable Energy Industry” . This document is almost uniformly used amongst jack-up operators and marine warranty surveyors as the standard to be followed for safe operation of jack-up vessels.

For further information, please see the below link/material:

1. Guidelines for the Selection and Operation of Jack-ups in the Marine Renewable Energy Industry (<https://www.renewableuk.com/news/309151/Guidelines-for-the-Selection-and-Operation-of-Jack-ups-in-the-Marine-Renewable-Energy-Industry.htm>)

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- Installation and Construction Vessels

Sno.	Name of Vessel	Company	Builder	Year	Type	Length (m)	Gross Tonnage	Deck Area (sq.m)	Variable Load	C
1	Aeolus	Van Oord	JJ Sietas, Hamburg, Germany	2014	Offshore wind farm transport and installation vessel	139.4	14,800t	3,300	Deadweight 6,500t	T OC
2	Gulliver	Scaldis Salvage & Marine Contractor N.V.	Royal IHC	2017	Self-propelled crane ship (DP II Heavy Lift Vessel)	108	-	2000	15t/m ²	2x
3	Innovation	Geo Sea n.v.	CRIST s.a., Poland	2012	Heavy -Lift jack-up vessel, self propelled	147.4	21,682t	3,750	8,000t	LIEB 64 LI

4	Wave Lift I	WULF Seetransporte	Western Ship Building yard, Lithuania	2010	Gusto NG 5300 slef elevating crane	114.87	7,962	-	2,000t	GLC
5	IGNATIOS II	Spanopoulos Group		1979/2013 Conversion	Self Propelled Crane Barge	60	1699.0 t	-	879.83 t	MAI F
6	SEA INSTALLER	A2SEA	-	2012	DP2, self- propelled jack-up vessel	132.41	15,996 t	3,350	-	crai GLC Car 5



Have any Questions? Send a Message.



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For more details on FOWPI project, please email:
info@fowpi.in (<mailto:info@fowpi.in>) or fowpi.india@gmail.com (<mailto:fowpi.india@gmail.com>)

Phone +91.124.4319500,

Telefax +91.124.4319501,

Direct +91.9687800983/8849012213

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